

Family datasheet

ECO 210-3 Fine Manometer

ECO 210-5 Manometer

- Modern and functional design – pocket-size
- Excellent price/performance ratio
- 3-line backlit display / overhead display at the push of a button
- Waterproof (IP67 excl. pressure ports)
- Robust, long battery operation time
- Easy to use universal pressure port with exchangeable connections
- High resolution and precision
- Very fast!
- Calibration options/ traceable
- Made in Germany



Characteristics

The primary focus in the development of the new G 1100 series was placed on the essential functions of the measurement technology. The heart of the instrument – the sensor – is a high-class component – which excels in this instrument class.

The high reliability, speed and precision of the G 1100 variants, packed in a compact and water protected housing makes the instruments an ideal partner of industry and craft sector, Made in Germany

ECO 21x Series – The reference class in pocket size.

ECO 210-3

Fine pressure manometer for application in Heating / Ventilation / Air-conditioning (HVAC)

The measurement range up to 200 hPa (mbar) / 20 kPa and the high resolution up to 0.1 Pascal in the optimized fine pressure mode covers the main applications for gas pressure 150 hPa (mbar) and burner adjustments with a single instrument. The high precision simplifies e.g. adjustments of dynamic pressure or draft measurements. The measurement is independent of instruments orientation – better than many, even much more expensive, competitors.

ECO 210-5

The sister device of the extremely high-resolution G 1107 is the first choice when differential pressures $> \pm 200$ hPa (mbar) are to be measured. Up to ± 2000 hPa are covered precisely and with high resolution (up to 0.01 hPa or 0.1 Pascal in optimized fine pressure mode).

NEW: UNIVERSAL-PORTS for use with a large range of pressure connections: Screw fitting, Quick-Connect, Push-Pull: All these types can be connected to the instrument! You have the choice, which connection is most practicable for you – instrument keeps the same. Increased resolution of 0.1 Pascal at high precision for finest pressure adjustments.

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Connection variants

- ① UT connection for tubes 6 x 1 mm (4 mm inner) and 8 x 1 mm (6 mm inner)
- ② QC6 Quick-Connect connection for 6 x 1 mm (Ø 4 mm inner) tubes
- ③ ST6 screw connection for 6 x 1 mm (Ø 4 mm inner) tubes
- ④ MCM mini male quick coupling nominal diameter 2.7 (Mini quick connect coupling socket optionally available)

Universal port for the connection of different pressure connections. The pressure connection is exchangeable due to 1/8 inch port!



Please select variant when ordering. Can be changed later.



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TECHNICAL DATA

	ECO 210-3	ECO 210-5
Description	Fine Manometer	Manometer
Measuring	Difference	
Pressure connection	2 tube connections, interchangeable with G1/8 universal ports	
Ranges / resolution	Choice from -2000...+2000 Pa to -200.0...+200.0 hPa (mbar) (FINE: -200.0...+200.0 Pa)	choice from -200.0...+200.0 hPa to -2000...+2000 hPa (mbar) (FINE: -2000...+2000 Pa)
Display units	Pa, hPa, mbar, PSI, mmHg (Torr)	[FINE: Pa], hPa, mbar, bar, PSI, mmHg (Torr)
Measuring frequency	Slow: 2,5 measurements per second Fast: 25 measurements per second	
Precision typ. @ 25 °C	+/- 0. % FSS	+/- 0.1 % FSS
Precision max. (-20..50 °C)	+/- 1 % FSS	+/- 1 % FSS
Max. overload	+/- 1700 hPa	+/- 3100 hPa
Display	3-line segment LCD, additional symbols, illuminated (white, illumination time adjustable), overhead display on key press	
Standard functions	Min/Max/Hold, Auto-Power-Off-function / if activated, the product switches off automatically	
Optional special functions	NULL / Tare function	
	<i>F_{inE}</i> : With 0.1 Pa resolution	<i>F_{inE}</i> : With 1 Pa resolution
	<i>F_{ur}</i> : Averaging over 2 s / 5 s / 10 s	
Adjustment	Zero point and slope	
Housing	Break-proof ABS housing, protection rating IP67 (pressure connections must be protected from soiling and moisture), dimensions L x W x H: 108 x 54 x 8 mm, with connection ca. 122 x 54 x 8 mm, weight: 150 g incl. battery	
Operating conditions	-20 to +50 °C; 0 to 95 % (r.h. temporarily 100 % r.h.)	
Storage temperature	-20 to +70 °C	
Power supply	2 x AA battery (included in the scope of delivery), current consumption: ca. 1 mA (slow measurement SLO), battery life ca. 3000 h, battery indicator: 4-stage charge status indicator, note for low charge level: "bAt Lo"	

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ORDERING CODE

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1.	Measuring range	
	3	-2000...2000 Pascal (-20.00...20.00 mbar) -200.0...200.0 mbar dif.
	5	-200.0...200.0 mbar -2000...2000 mbar dif.
2.	Connection option	
	UT	2x G1/8 inch port incl. connection for tube 6x1 mm (4 mm inner) or 8x1 mm (6 mm inner)
	QC6	2x G1/8 inch port incl. quick connector for tube with outer-Ø 6 mm
	ST6	2x G1/8 inch port incl. screw connector for tube with outer-Ø 6 mm
	MCM	2x G1/8 inch port incl. mini quick coupling plug, nominal width 2.7
3.	Set option	
		Device in carton box, test-protocol, batteries, manual
	SET	Device in case GKK 1002, 1 m tube 6x1 PVC, test-protocol, batteries, manual
	SET	For -MCM: Device in case GKK 1002, 1 m tube 6x1 PVC, test-protocol, batteries, manual, 2 quick connect sockets GDZ-MCF
	SET 8	Device in case GKK 1002, incl. 1 m rubber tube 8 mm, test-protocol, batteries, manual
	WPD	Device in case GKK 1002, 1 m tube 6x1 PVC, factory calibration WPD5, not DAkkS accredited, batteries, manual

STANDARD ARTICLES

ECO 210-3-UT	Fine manometer, pressure connection: 2x G1/8 inch port incl. connection for tube 6x1 mm (4 mm inner) or 8x1 mm (6 mm inner) Set-Option: Device in carton box, test-protocol, batteries, manual Art no. 486718
ECO 210-3-UT-SET8	Fine manometer, pressure connection: 2x G1/8 inch port incl. connection for tube 6x1 mm (4 mm inner) or 8x1 mm (6 mm inner) Set-Option: Device in case GKK 1002, 1 m silicone tube 8 mm, , test-protocol, batteries, manual Art no. 487010
ECO 210-3-QC6	Fine manometer, pressure connection: 2x G1/8 inch port incl. quick connector for tube with outer-Ø 6 mm Set-Option: Device in carton box, test-protocol, batteries, manual Art no. 486960
ECO 210-5-UT	Manometer, pressure connection: 2x G1/8 inch port incl. connection for tube 6x1 mm (4 mm inner) or 8x1 mm (6 mm inner) Set-Option: Device in carton box, test-protocol, batteries, manual Art no. 486735
ECO 210-5-ST6-WPD	Manometer, pressure connection: 2x G1/8 inch port incl. screw connector for tube with outer-Ø 6 mm Set-Option: Device in case GKK 1002, incl. 1 m tube 6x1 PVC, factory calibration WPD5, not DAkkS accredited, batteries, manual Art no. 487035

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ECO 210-5-QC6 Manometer, pressure connection: 2x G1/8 inch port incl. quick connector for tube with outer-Ø 6 mm
Set-Option: Device in carton box, test-protocol, batteries, manual **Art no. 486983**

ACCESSORIES

ST-G1000 Protection bag with belt clip **Art no. 611373**

G1000-Cover Rubber protection cover for ECO-Line/G 1000 series, black, incl. 2 neodymium magnets **Art no. 483958**

GCLIP1000 Metal belt clip self-adhesive **Art no. 475820**

G1000-BASE ECO-Line table base and wall suspension **Art no. 481885**

GDZ-UT Universal pressure port for tube 6/4 or 8/6 with male thread G 1/8, brass nickel-plated **Art no. 479260**

GDZ-QC6 Quick connect for hose 6/4 with male thread G 1/8, brass nickel-plated **Art no. 479261**

GDZ-MCM Mini quick connect coupling plug (nominal diameter 2.7) with male thread G 1/8, brass nickel-plated **Art no. 479467**

GDZ-MCF Mini quick connect coupling socket (nominal diameter 2.7) with screw lock for tube 6/4, seals when plugged off, brass nickel-plated **Art no. 480221**

GDZ-01 PVC hose 6/4 (6 mm outside-Ø, 4 mm inside-Ø, 5 bar at 23 °C) **Art no. 601541**

GDZ-31 Rubber tube 8/5 (8 mm outside-Ø, 5 mm inside-Ø, 2 bar at 23 °C, max. 200 °C) **Art no. 606070**

GKK1002 Case for ECO-Line / G1000 series, dimensions: 235 x 185 x 48 mm **Art no. 411907**

For more available accessories, visit the Senseca-Website.

OPTIONAL: CALIBRATION

ISO-WPD5 ISO calibration certificate: 5 points rising, 5 points falling **Art no. 602514**

Many other calibration options are available at Senseca, for more information please visit the Senseca-Website